**CAAM 536/CEVE 555 – Spring 2016**

**Instructor and general information**

| | |
|---|---|
| **Instructor:** | Adrianna Gillman |
| **Office:** | DCH 3022 |
| **Office hours:** | M 1:30-2:30pm or by appointment |
| **Contact:** | adrianna.gillman@rice.edu (email) |
| **Lecture times:** | TTh 1-2:15 pm |
| **Lecture location:** | DCH 1042 |
| **Webpage:** | http://www.caam.rice.edu/∼caam536/ |

Note that you do not need an appointment to attend regularly-scheduled office hours. If you have a conflict you may make an appointment to meet outside those times.

| | |
|---|---|
| **Textbooks:** | *Finite Difference Methods for Ordinary and Partial Differential Equations: Steady-State and Time-Dependent Problems* by Randall J. LeVeque, SIAM, 2007<br>*Understanding and Implementing the Finite Element Method*<br>by Mark S. Gockenbach, SIAM, 2006 |
| **Additional reading:** | *Numerical Analysis of Partial Differential Equations*<br>by Charles Hall and Thomas Porsching, Prentice Hall 1990<br>*Sobolev Spaces* by Robert A. Adams.<br>*The Mathematical Theory of Finite Element Methods*<br>by Suzanne C. Brenner and L. Ridgeway Scott, Publisher Springer.<br>*The Finite Element Method for Elliptic Problems*, by Philippe G. Ciarlet.<br>*Handbook of Numerical Analysis: Volume II, Finite Element Methods*<br>by Philippe G. Ciarlet and Jacques-Louis Lions, North Holland, NY (1991).<br>Additional reading may be suggested throughout the term. |

**Homeworks**

Homeworks will contain both theoretical and computational problems. Students are strongly encouraged to start their homeworks early. For pledged homework problems, you are allowed to you reference the course texts and lecture notes. **No internet or other resources are allowed** unless specified in the directions for the assignment.

Homeworks are to be handed in at the beginning of class on the due date. If the homework is turned in after the class is over, it is considered late. Late homeworks will incur penalties in increments of 10%.

**Grading**

Grades will be assigned based on homework scores.

**Note on Disability Based Accommodations**

If you have a documented disability that will impact your work in this class, please contact us to discuss your needs. Additionally, you will need to register with the Disability Support Services Office in the Ley Student Center.

**The Honor Principle**

Unless noted otherwise, you are encouraged to discuss regular homework problems with fellow classmates. You are expected, however, to individually write up your solutions. On pledged problems, you are not allowed to discuss homework with fellow students. You are never allowed to share computer codes for assignments. Each student is responsible for writing their own codes. You may not consult solution sheets from past CAAM courses.